



Mayor Teresa Ann Isaac

LEXINGTON - FAYETTE URBAN COUNTY GOVERNMENT
Division of Engineering

To: Mayor Teresa Ann Isaac
Urban County Council

From: Darryl G. Bennett, P.E.
Engineering Section Manager

Date: November 28, 2006

Subject: November 2006 Stormwater Update for Mayor and Council

Each year the Division of Engineering completes a report that reviews its stormwater activities, including construction and related activities for the past twelve months. This document and the attached appendices have been created to fulfill that obligation. Included in it are reviews of capital projects, infrastructure rehabilitation, water quality activities, and stormwater programs such as sump pump redirection.

Appendices attached to this report provide explicit information about qualified stormwater priority projects based upon the source of their funding. With the exception of Appendix 4a, these items review **Design and Construction of Stormwater Projects**.

- Appendix 1a – Omnibus List of Active Stormwater Projects
- Appendix 1b – Stormwater Project Status Summary
- Appendix 2a – Active Stormwater General Fund Priority Projects Summary
- Appendix 2b – Completed Stormwater General Fund Priority Projects Summary
- Appendix 3a – Stormwater Bond Issue #1 Priority Projects Summary
- Appendix 3b – Stormwater Bond Issue #2 Projects Summary
- Appendix 3c – Stormwater Bond Issue #3 Priority Projects Summary
- Appendix 4a – Division of Engineering Response to Storm of September 23
- Appendix 4b – Stormwater Priority Projects Master List

The **Omnibus List of Active Stormwater Projects** outlines information about currently active projects, including studies, designs, and construction. There are currently fifteen (15) active projects.

The **Stormwater Project Status Summary** totals the number of projects that are in each phase of activity for all sources of funding.

The **Active Stormwater General Fund Priority Projects Summary** reviews the status of all that will be paid wholly or partially from the General Fund. One project, **Trafton Street (#75)**, is shown on this summary. Council approved \$1 million from the General Fund to pay for this project; the remaining \$600,000 of expected costs will come from the most recent bond fund. This project is being designed and property acquisition is being negotiated.

HORSE CAPITAL OF THE WORLD

The **Completed Stormwater General Funds Priority Projects Summary** itemizes those priority projects that have been completed from the General Fund since the priority list was first published in 1996. Since last year's report, no priority projects have been completed using the General Fund.

The **Stormwater Bond Issue #1 Priority Projects Summary** (former Bond Fund 630) reviews projects funded since 1998 by this bond issue. Project highlights for this fund include the following activities.

- The second and last phase of the **Dantzler/Arcadia/Cherokee Park Project (#50)** was completed in October. This project was constructed to diminish home and serious street flooding on these streets, Suburban Court, and Rosemont Garden. New storm sewers, curb inlets, and supporting infrastructure were installed.
- The final phase of the **Viley Neighborhood Project (#87)** is progressing. The Division of Engineering has applied for a FEMA mitigation grant to construct a detention structure in Vaughns Branch near Versailles Road. This grant application has been favorably reviewed by FEMA. When it is approved, the Division of Engineering will proceed with design, property acquisition, and construction of the proposed project.

The **Stormwater Bond Issue #2 Projects Summary** (former Bond Fund 673) reviews projects and activities funded via this 2001 bond issue. The bond issue was intended to fund a variety of activities, including priority projects, rehabilitation projects, water quality projects, and basin maintenance. Most of the funds remaining in this bond have been set aside for specific activities or areas.

The **Stormwater Bond Issue #3 Priority Projects Summary** reviews the latest bond, issued in 2006, for stormwater capital projects. To date, seven priority projects have been approved for funding, either wholly or in part, from this bond.

- The **Perry Street Project (#4.5)** will be completed in two distinct stages. Design is complete to install a new section of storm sewer to resolve serious street flooding. Construction is expected to last only a few weeks and will start soon. The second stage requires appraising and purchasing one house that is known to flood. The Division of Engineering expects this work to be completed by early summer 2007.
- The **North Limestone Project (#45.5)** is being reviewed by staff. Current opinion is that the purchase and demolition of multiple houses that flood will be necessary. The area may provide suitable space for a small detention basin.
- The **Liberty Road Project (#47.3)** requires the purchase and demolition of two houses that flood. Offers have been made to the property owners, and the Division of Engineering is negotiating with them.
- The **Glendover West Project (#47.6)** has been designed and bid. Construction is planned for the coming winter and spring months. The project will construct stormwater control features on the University of Kentucky Arboretum property. These features will reduce flooding at several homes in the Glendover Road area. The construction bid for the project totaled \$470,000.
- The **Derby Drive Project (#58.3)** will require the purchase and demolition of at least four houses that flood. Acquisition of those properties will start as funds become available from this bond. Currently, funds can not be specifically earmarked for this project due to the expected costs of the other approved projects. Remaining properties will be purchased, as needed, from funding sources available in the future.
- Preliminary engineering for the **Elizabeth Street Project (#60)** is complete. The Division of Engineering recommends that this project be divided into two phases. The first phase will be paid

from this bond and is expected to cost about \$900,000. Phase Two will be paid from future funding sources, such as the general fund or the next bond issue. An outline of each activity was provided to the Stormwater Oversight Committee at its August 2006 meeting.

- This bond fund will provide part of the funding for the **Trafton Street Project (#75)** as described above.

To provide fair and equitable response to all citizens who had flooding issues on September 23, the **“Division of Engineering Response to Storm of September 23”** was written. This procedural document is temporary and will expire during the summer of 2007. In summary, the division will wait to add newly identified stormwater priority projects until early summer 2007.

The **Stormwater Priority Projects Master List** reviews the current status of all recommended stormwater priority projects. By policy, the Division of Engineering manages this list and adds projects that will reduce home flooding or serious street flooding. The division also notes other changes to the list, such as removing projects that have been completed or are not recommended for completion. The cost estimates for all projects remaining on the list are annually adjusted using the Consumer Price Index (CPI). The current value for the prioritized list is \$121,447,000.

The Stormwater Section also manages **Other Stormwater Activities and Projects**.

The **Sump Pump Redirection Program** is funded by the Division of Sanitary Sewers. The purpose of this program is to help reduce clean water inflow into the sanitary sewer system. At the invitations of homeowners, employees inspect sump pump installations. If they determine that the sump pump discharges clean water into the sanitary sewer, they will recommend that it be redirected. If the owner agrees to participate, the cost for the work is entirely paid by the LFUCG. Since the beginning of this year, 121 redirection projects have been completed for a total cost of \$244,000. An additional forty properties were inspected that did not meet the program’s criteria.

The **Watershed Modeling and Simulation** continues at a slowed pace due to limitations of funding. The goal of this program is to complete computerized hydrologic and hydraulic simulations of the entire Urban Service Area. These simulations will then be used to improve stormwater infrastructure design for LFUCG capital projects and for areas being developed. They will allow engineers to analyze the effects that their designs have on entire watersheds, rather than just the local area. Consulting firms under contract with the LFUCG continue to collect data in six major urban watersheds as part of this program.

Since 1997 the LFUCG and the United States Geologic Survey (USGS) have cooperatively managed a **Stream and Rain Gauge Network**. There are eleven (11) stream gauges and nine (9) rain gauges at twelve sites. These gauges collect values for stream stage, stream flow, and rainfall amounts every five minutes. Every few hours the data is uploaded to the USGS via satellite. They interpret the data and make it available on the internet in near real time. The LFUCG pays for 60% of the operating costs for these gauges; maintenance, calibration, and data interpretation are the responsibility of the USGS.

The **Enforcement and Basin Inspection Group** has multiple areas of responsibility. They enforce compliance with certain ordinances related to construction activities. Their enforcement actions are meant to improve silt and erosion control on construction sites and to reduce damage to public infrastructure. So far this year, the group has issued civil citations with civil penalties at 139 different properties. The assessed penalties total \$29,000.

This group manages an ongoing program to inspect publicly and privately owned dry detention basins and wet retention ponds. The current database of sites includes 1,139 detention basins and 105 retention ponds. Each basin is inspected two times per year and each residential pond is inspected monthly. Inspections are completed to make sure that the structures are operating properly and do not pose a public hazard.

The **Retention Pond Action Match Program** is administered through this group. Neighborhood associations may apply for financial assistance to improve their retention pond, and a committee formed by the Mayor's Office selects from the applicants. In 2006, three neighborhoods applied for and received grants: Woodfield Homes received \$5,000 to control erosion; Palomar Hills received \$4,442 to improve surface drainage; Waterford Homeowners received \$12,095 to install aerating fountains and erosion control.

The **Geographic Information System (GIS) Group** provides service to all employees within the Division of Engineering and assists other divisions and departments with their GIS needs. In part, they create and maintain maps and databases of public infrastructure. This year the GIS Group has mapped 5,700 stormwater structures, such as inlets, manholes, and headwalls, using GPS equipment. By the end of 2006, they will have also mapped and cataloged seventy additional detention basins.

The Stormwater Section manages multiple activities to protect publicly held easements and floodplains. The section works in conjunction with the Division of Building Inspection, local utility companies, the Kentucky Division of Water (DOW), and FEMA. The program reviews some fence construction permit applications forwarded by the Division of Building Inspection. Each review determines if a proposed fence may be appropriately built in a drainage easement or on the fringe of a floodplain. Since the first of the year, 132 fence construction applications have been reviewed.

The section also coordinates with and assists citizens who want to encroach on storm sewer, sanitary sewer, drainage, and utility easements. Owners who want to build permanent structures on those easements are required to obtain the right to encroach and record the documents with the County Clerk. Since the beginning of the year, 107 encroachment agreements have been processed.

In 2005 the Mayor named the Urban County Engineer as the **FEMA Floodplain Coordinator** for Fayette County. Stormwater Section engineers and the Urban County Engineer will now review all applications that are submitted to the DOW and to FEMA. This year, the section has processed thirty-five Letters (35) of Map Change that property owners submitted to FEMA; sixteen (16) Stream Construction Permit applications were reviewed before going to the DOW. The Division of Planning continues to direct the Community Rating System (CRS) program and manages ordinance changes.

The Divisions of Engineering, Planning, and Computer Services have worked jointly since 2004 to complete new **Digital Flood Insurance Rate Maps** for Fayette County. This project was entirely funded by a FEMA grant. The quality, precision, and readability of these maps are substantially better than the ones being used now. The new maps are in color and overlay aerial photographs. They will become the official maps for Fayette County in January 2007 and will be made available for download from the LFUCG web site.

Eight **Stormwater Rehabilitation Projects** were either completed or had significant activity in 2006. Rehabilitation projects are completed to restore broken infrastructure to its intended use.

- The Wilson-Downing Road Project repaired a broken street collection system that was causing roadway and roadside flooding near the intersection with Camelot Drive.
- The Grassy Creek Project repaired a failed roadside system that was causing dangerous roadway flooding near the intersection with Old Higbee Mill Road.
- The Bowman Mill Road Project rebuilt a broken system that caused dangerous roadway ponding near Old Harrodsburg Road.
- The Mentelle Park Project was partially completed by rehabilitating a stormwater manhole that had failed. When funding becomes available the failed vitreous clay storm sewer will be lined with polymer.
- The Squires Hill Lane Project was completed to repair a broken culvert that was contributing to roadway failure. This site is near the intersection with Armstrong Mill Road.
- Design was completed for the Arrowhead Drive Project, but resident opposition has led to its cancellation. Staff members are creating a maintenance program to resolve the identified issues.
- The design for repairing the detention outlet at the LFUCG Versailles Road campus (old Furrows property) is complete. As funding becomes available for easement acquisition and construction, this project will be bid.
- Design for repairing the Greenbriar Road culvert is complete. When funding is available, this project will be let for construction.

As with prior years, **Water Quality Projects and Programs** were a significant part of division activities.

- Ten stormwater discharge sites were sampled by our consultant to meet the requirements of the Federal Clean Water Act (CWA). Laboratory tests for chemical constituents were completed, and field investigations of macroinvertebrate species, fish biodiversity, and habitat were done.
- Dry weather screening was finished at 196 sites. This work includes limited observations of physical characteristics and some chemical testing. The activity is a requirement of the CWA and helps identify pollution sources.
- In conjunction with the Division of Streets, Roads, and Forestry, the Reforest the Bluegrass Program was completed during spring and fall events. This year volunteers planted 5,000 tree seedlings in Mary Todd Park, Mary Todd Elementary School, and the trailhead of Town Branch Trail. So far, more than 90% of the seedlings have survived, and some are now six feet tall.
- The Rowland Avenue Stormwater Quality Project was completed. This project rehabilitated an eroded section of stream on LFUCG property. The project included construction of stepped pools for improved habitat, rock vein installation for bank stabilization, and planting of deep rooted native species to reduce erosion.
- The Operation Upstream Program continues to place placards on storm sewer inlets. These markers educate the public to the environmental hazards associated with dumping foreign materials into the system. This year students from Sayre School placed the markers in the area around their school.
- Department of Public Works personnel partnered with several environmental groups and organizations this year. Division of Engineering worked with the Sierra Club Cool Cities initiative, the Bluegrass Partnership for a Green Community, and the US Mayors' Agreement on Climate Change. The Division of Sanitary Sewers also coordinated with the Friends of Wolf Run on a program to identify the source of some pollutants.
- Division of Engineering staff continued watershed education activities. They assisted the Kentucky Waterways Alliance at a watershed planning workshop; citizens were trained through Watershed Watches in Kentucky, the Kentucky River Watershed Watch, and the Friends of Wolf Run.

- The Division of Engineering and the Kentucky Division of Water have created the draft for a new stormwater permit for Fayette County. This fifty one (51) page document outlines the requirements for the LFUCG to comply with Kentucky and United States water quality laws.

After many months of dry weather, September was the wettest on record, with 10.25 inches of precipitation. It was followed by the fifth wettest October, at 6.29 inches. The combined rainfall for the two month period was 10.73 inches above normal, also setting a record for those two months. The majority of September's rainfall fell in the two days ending on the morning of the 23rd, creating multiple problems with flooding throughout the urban areas.

The map preceding the appendices illustrates the severity of the storm. It was created using preliminary rainfall data collected at eight gauging stations operated cooperatively with the United States Geologic Survey (USGS). The values represent the most intense twenty four hours of rainfall at each station. The data imply that a large portion of Fayette County suffered from an unusually intense storm with a return interval exceeding 100 years (1% annual chance). This area is shown in dark gray. The lighter shades represent areas with less severe rainfall.

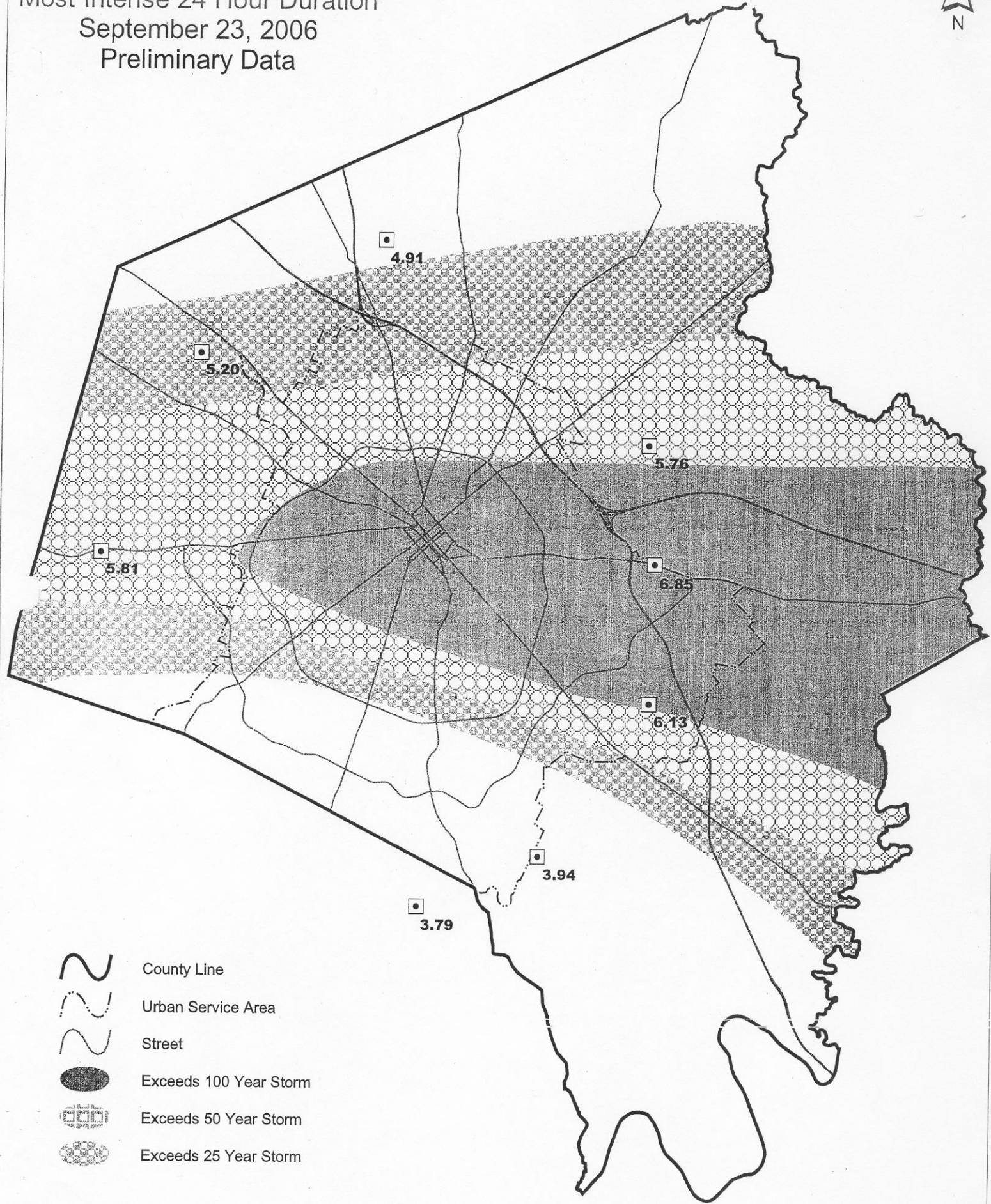
The Division of Engineering is committed to reducing the instances of home flooding and serious street flooding. We are responding to the storm of September 23 by investigating all locations with reported flooding. Our first action has been to identify problem clusters and mail questionnaires to addresses in and around those clusters. Later, we will send questionnaires to areas with fewer reported problems. So far this year, the Stormwater Section has mailed out 630 questionnaires to 32 different areas. While most of those mailings were based on the storm of September 23, other areas are also being investigated due to reported flooding from other storms. We expect that a few hundred additional questionnaires will be sent to residents because of reported flooding from the September 23 event.

The information gleaned from these questionnaires, along with site visits, will be used to determine the need for new priority projects. The 2004 "Policy Determining Response to Home and Residential Flooding" and the recommendations found in Appendix 4a will be followed.

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LFUCG/USGS Rain Gauges
Most Intense 24 Hour Duration
September 23, 2006
Preliminary Data

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DIVISION OF ENGINEERING
OMNIBUS LIST OF ACTIVE STORMWATER PROJECTS
November 28, 2006



DIVISION OF ENGINEERING • DEPARTMENT OF PUBLIC WORKS
LAWRENCEBURG, KENTUCKY 40342 • 502-562-4400 • FAX 502-562-4401

Project Name	Funding Source	Stage	Countee District	Available Funds	Current Constr & ROW Estimate	Constr & ROW Spent	To Date	Comments
Viley-Sugar Mill Phase (#87)	BI 1	Design	11	Yes	\$300,000	\$0	\$0	CLOMR approved; FEMA grant application approval seems favorable
Trafton Street (#75)	GF	Design	11	Yes	\$1,500,000	\$0	\$0	Design nearing completion; property acquisition underway, negotiating with owner
Liberty Road (#47.3)	BI 3	ROW	5	Yes	\$599,000	\$1,000	\$1,000	Purchase of houses; offer made to two owners; negotiating with owners
Elizabeth Street - Phase I (#60)	BI 3	Design	3	Yes	\$900,000	\$0	\$0	Scope of project changed to multiphase; plan to construct first phase in 2007
Glendover West (#47.6)	BI 3	Construction	4	Yes	\$470,000	\$0	\$0	Project bid; construction to proceed during winter of 2006~2007
North Limestone/ 900 Block (#45.5)	BI 3	Design	1	Yes	\$563,000	\$0	\$0	Staff evaluating scope of project; probable house purchases
Derby Drive (#58.3)	BI 3	Design	10	No	\$788,000	\$0	\$0	Staff evaluating scope of project; funds to be spent if other projects do not proceed
Perry Street (#4.5)	BI 3	Construction	2	Yes	\$66,000	\$0	\$0	Minor construction started; one house to be bought
Ft Sumter Stream Restoration	BI 2	Management	6	Yes	\$22,000	\$18,000	\$18,000	Additional phased landscaping along creek - monitoring site
Valley Park Stream Restoration	N/A	Design	11	No	\$0	\$0	\$0	Kentucky Fish & Wildlife mitigation project; LFUCG paying for design
McConnell Springs Wetland Pond	BI 2	Design	2	Yes	\$153,000	\$0	\$0	EPA 319 grant; construction delayed; should complete after Trafton; funds limited
Dogwood Trace Bioinfiltration Basin	BI 2	Design	10	No	\$15,000	\$0	\$0	Design complete for bioinfiltration basin; funding unavailable in this FY
Mentelle Park	GFR	Design	3	No	\$50,000	\$5,000	\$5,000	Investigation finished; failed VCP; manhole repaired; need construction funds
Versailles Rd Campus (Furrows) Det Basin	GFR	Design	11	No	\$135,000	\$0	\$0	Design complete to repair failed detention basin pipe; no construction funds
Greenbriar Road Culvert	GFR	Design	4	No	\$50,000	\$0	\$0	Design nearly complete to rehabilitate culvert; no construction funds
		Total			\$5,611,000		\$24,000	

- BI 1 - Prioritized project funded via first Bond Issue (former Fund 630)
- BI 2 - Project funded via second Bond Issue (former Fund 673)
- BI 3 - Prioritized project funded via third Bond Issue
- RE - Rehabilitation project to repair broken system (Fund 673)
- GF - Study, prioritized project, or other work paid via General Fund account (Fund 111)
- GFR - Rehabilitation project funded via General Fund account (Fund 111)
- GFC - Prioritized construction project funded via General Fund account (Fund 111)
- GFD - Detention and retention repair monies from General Fund (Fund 111)
- GR - Grant Funded
- SRF - Project funded by Streets, Roads, & Forestry maintenance account

DIVISION OF ENGINEERING
GENERAL FUND AND BOND ISSUE
STORMWATER PROJECT STATUS



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 DIVISION OF ENGINEERING - DEPARTMENT OF PUBLIC WORKS
 LIMITED EDITION STORMWATER ENGINEER: 2000 GOLF ROAD SUITE 100, BLOOMFIELD HILLS, MI 48306

November 28, 2006

Former Fund Number	GF Capital (Fund 111)	Bond Issue #1 (Fund 630)	Bond Issue #2 (Fund 673)	Bond Issue #3 (Fund 673)	NDC Capital (Fund 650)	GF Rehab (Fund 111)	Total
Construction Completed	24	18	16	0	5	10	73
Continuing Property Acquisition	0	0	0	1	0	0	1
Under Construction or Ready for Construction	0	0	0	2	0	0	2
Not Recommended for Action, Per Council Approval	18	5	1	0	0	0	24
Under Design or Pending Design	1	1	3	3	0	3	11
Study	0	0	0	0	0	0	0
Study Completed	2	0	0	0	0	0	2
Total	45	24	20	6	5	13	113 *

* Total Includes First FEMA Grant, WPGL,
 Multiphase Projects (#50, #55, #59, #87, and #89),
 & Bond Funded Projects



DIVISION OF ENGINEERING - DEPARTMENT OF PUBLIC WORKS
CONTRACT #00112 (DRAFT) DRAFT DATE: 10/28/2005 RELEASE DATE: 11/20/2005

Division of Engineering
Active Stormwater General Fund Priority Projects Summary
November 28, 2006

Project Priority and Name	Project Stage	Council District	Current Estimate	Original Estimate	Comments
PROJECTS IN DESIGN STAGE					
75 TB-15, Trafion Street	Design	11	\$1,500,000 \$1,500,000	\$1,338,000	Design nearly complete; property acquisition started, negotiating with owner
Subtotal					
Total			\$1,500,000	\$1,338,000	

PROJECTS IN DESIGN STAGE
75 TB-15, Trafion Street

Division of Engineering
Completed Stormwater General Fund Priority Projects Summary
November 28, 2006



DIVISION OF ENGINEERING • DEPARTMENT OF PUBLIC WORKS
 LOMIRA/FRUITLAND URBAN COUNTY GOVERNMENT 200 EAST MAIN STREET, BOX 1100, LOMIRA, WI 53146

Project Priority and Name	Date Completed	Council District	Final Cost	Original 1993 Estimate	Comments
N/A WPGL	August 1995	4	\$450,000	\$870,000	Construction Complete
N/A FEMA Grant #1 (Kilrush; 3 houses)	June 2001	11	\$293,000	\$293,000	Construction Complete
1 Yellowstone Parkway	June 1998	7	\$9,000	\$6,000	Construction Complete
2 Plainview Road	September 1999	7	\$17,000	\$6,000	Construction Complete
4 Smokey Mountain Court	May 1998	7	\$9,000	\$7,000	Construction Complete
5 CR-6, Old Paris @ I-75	August 2003	6	\$129,000	\$23,000	Construction Complete
7 WH-43, Coldstream Court	November 1998	8	\$20,000	\$57,000	Construction Complete
9 WH-37, Tanforan Drive	October 2001	8	\$145,000	\$13,000	Construction Complete
10 Lansdowne-Wilson Downing	January 1999	4	\$82,000	\$16,000	Construction Complete
11 WH-6, Olympia Drive	July 1999	8	\$7,000	\$34,000	Construction Complete
12 Gardenside (Roanoke Drive Area)	July 2002	11	\$104,000	\$114,000	Construction Complete
14 WH-32, Sundart-Thames	July 2002	8	\$79,000	\$65,000	Construction Complete
15 Sandalwood	September 1998	6	\$35,000	\$20,000	Construction Complete
26 CR-11, Briarwood Drive	August 2002	2	\$461,000	\$172,000	Construction Complete
27 SE-4, Cindy Blair Way	December 1997	9	\$230,000	\$69,000	Construction Complete
30 CR-18,Loudon Avenue	January 2002	1	\$350,000	\$229,000	Construction Complete
31 WR-15, McCubbing Drive Sinkhole	February 2002	10	\$3,000	\$153,000	Construction Complete
32 Castlewood (Witland Drive)	July 1998	1	\$96,000	\$140,000	Construction Complete
35 SE-22, S Elkhorn, Monticello/Halifax*	August 2002	9	\$0	\$134,000	Construction Complete
36 Beaumont Park	December 1998	10	\$111,000	\$65,000	Construction Complete
37 WR-2, Parkers Mill @ Williamsburg	June 2003	11	\$50,000	\$153,000	Construction Complete
55 NE-8,Floyd @ NC (Dartmoor) - Phase 1	November 2002	6	\$451,000	\$325,000	Construction Complete
58 Lansdowne/Merrick	October 2000	5	\$488,000	\$620,000	Construction Complete
59 Elkhorn Park - Phase 1	September 2002	6	\$90,000	\$70,000	Construction Complete
				\$3,709,000	
				\$3,654,000	

*Project #35 Completed As Minor Part Of Bond Issue Project #39



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Division of Engineering
Stormwater Bond Issue #1 Priority Projects Summary
(Former Bond Fund 630)
November 28, 2006

Project Priority and Name	Project Stage	Council District	Current Cost Or Estimate w/o Design	Original 1993 Estimate w/ Design	Comments
COMPLETED PROJECTS					
39 SE-21, S Elkhorn, Higbee Mill to Halifax	COMPLETE	9	\$100,511	\$306,000	Construction complete August 2002; includes #35; NDC reimbursement
40 CR-13, Morgan Avenue	COMPLETE	1	\$249,776	\$63,000	Five houses of 6 demolished; detention made part of CDBG
41 CR-5, Circle Dr @ Paris Pike	COMPLETE	6	\$100,000	\$344,000	One home that flooded demolished in December 2004
43 WR-19, Aster Road	COMPLETE	10	\$364,254	\$191,000	Construction complete to improve stormwater system June 2003
45 WH-3, Greentree Road	COMPLETE	8	\$711,329	\$382,000	Six houses purchased and demolished
46 Zandale	COMPLETE	4	\$328,104	\$390,000	Construction on Libby Lane completed March 2001
47 WH-35, Henry Clay Blvd	COMPLETE	6	\$186,902	\$268,000	Construction complete February 2002
48 Wellesley Heights	COMPLETE	12	\$0	\$65,000	Repair of headwall; completed using rehabilitation funds
50 Dantzler Arcadia Cherokee Park - Phases 1 & 2	COMPLETE	3	\$595,000	\$240,000	Construction complete October 2006
51 High St-Haefner Court	COMPLETE	3	\$152,000	\$75,000	Construction complete November 2002
54 E High Street - Stone Avenue	COMPLETE	3	\$148,275	\$75,000	Construction complete November 2002
52 WH-19, Rebecca Road	COMPLETE	4	\$231,109	\$115,000	Construction complete February 2002
59 Elkhorn Park - Phase 2	COMPLETE	2	\$560,000	\$550,000	Construction complete October 2005
87 Viley (Deauville and Kilrush)	COMPLETE	11	\$2,364,799	\$3,080,000	Buyouts complete (36 of 36; FEMA grant used on Kilrush)
89 Skycrest - Beacon Hill	COMPLETE	11	\$240,000	\$300,000	Construction complete October 2000
89 Skycrest	COMPLETE	11	\$2,987,320	\$3,080,000	Buyouts complete (22 of 22)
89 Skycrest - The Lane	COMPLETE	11	\$35,000	\$100,000	Floodplain remediation complete
	Subtotal		\$9,354,379	\$9,324,000	
PROJECTS UNDER CONSTRUCTION & HOME BUYOUTS					
	Subtotal		\$0	\$0	
PROJECTS RECOMMENDED FOR REMOVAL					
38 SE-23 So Elkhorn, Monticello to Reynolds	Not Recommended	9	\$0	\$134,000	Upstream improvements corrected problem
42 TB-23, Hollywood @ Ashland	Not Recommended	3	\$0	\$57,000	Investigation did not identify capital project
44 Hollow Creek @ Russell Cave	Not Recommended	2	\$0	\$380,000	Investigation did not identify capital project
49 Jefferson Street	Not Recommended	1	\$0	\$75,000	Investigation did not identify capital project
53 Ballard Street	Not Recommended	1	\$0	\$75,000	Investigation did not identify capital project
	Subtotal		\$0	\$721,000	
PROJECTS IN DESIGN STAGE					
87 Viley (Sugar Mill / FEMA Grant Match)	Design	11	\$300,000	\$300,000	CLOMR approved; applications approval seems favorable
	Subtotal		\$300,000	\$300,000	
Total Committed Construction Funds			\$9,654,379		
Committed Professional Service Funds (Projects 38 ~ 54, & 59)			\$530,074		
Committed Professional Service Funds (Projects 87 & 89)			\$566,542		
Bond Issuance Funds			\$38,500		
Total Committed Funds			\$10,789,495		
Available Construction Funds			\$25,024		
Available Professional Funds			\$20,000		
Contingency Account (#630-490-321-910 L5127)			\$36,371		
Total Available Funds			\$81,395		
Bond Fund 630 Account Total			\$10,870,890		\$10,945,000



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DIVISION OF ENGINEERING • DEPARTMENT OF PUBLIC WORKS
LUDINGTON ERIE COUNTY GOVERNMENT 300 EAST MAIN STREET, PELHAM, NY 10569

Division of Engineering
Stormwater Bond Issue #2 Projects Summary
(Former Bond Fund 673)

Project Status, Name, & District	Water Quality Capital Line 3185 Appropriation	Storm Drainage Rehabilitation Line 3219 Appropriation	Detention/Retention Program Line 3263 Appropriation	Storm Drainage Capital Projects Line 3991 Appropriation	Total
<u>Completed Projects</u>					
Storm Drainage Rehabilitation					
Gainesway Drive	8	14,000			
Seven Way	10	7,000			
Zandale at Bellefonte	4	13,000			
Gaidy Road	6	13,000			
Lakeshore Drive	5	49,000			
Williamsburg	11	54,000			
West Tiverton at Nicholasville	9	44,000			
Providence at Eastover	5	247,000			
Water Quality Capital					
EPA 319 Grant Match for Gainesway Pond	8	101,000			
The Lane WQ Improvements	11	3,000			
Ft Sumter - Phases 1 & 2	6	18,000			
Storm Drainage Capital					
Floyd Dr at NC (Dartmoor)	6	\$226,000			
Old Paris at I-75	6	96,000			
St. Ann Drive House Purchase	5	125,000			
Riviera	12	19,000			
Tiverton Stormwater Project	4	10,000			
Expended Funds	N/A	\$335,000			
Subtotal	122,000	441,000	0	1,011,000	\$1,574,000
<u>Construction</u>					
	Subtotal	0	0	0	\$0
<u>Design or ROW & Programs</u>					
Water Quality Capital					
Ft Sumter - Phase 2	6	4,000			
Dogwood Trace Park Bioinfiltration Basin	10	15,000			
EPA 319 Grant Match for McConnel Springs	2 & 8	153,000			
Available WQ Project Funds		12,000			
Storm Drainage Rehabilitation					
Wolf Run (Home Depot)		N/A			
Available Rehabilitation Project Funds					
Detention/Retention Program					
Available Funds for Continuing Program					
Storm Drainage Capital					
Available Capital					
Subtotal	184,000	161,000	60,000	60,000	21,000
<u>Total Planned Expenditure</u>					
	\$306,000	\$602,000	\$60,000	\$1,032,000	\$ 2,000,000

**Division of Engineering
Stormwater Bond Issue #3**

November 28, 2006



DIVISION OF ENGINEERING • DEPARTMENT OF PUBLIC WORKS
COUNTY OF ODESSA, ODESSA COUNTY, ODESSA, 200 EAST MAIN STREET, BIRMINGHAM, ALABAMA 35203

Project Name & Priority Number	Council District	Current Project Cost Estimate	Estimated Amount From Bond	Comments
Projects in Design Stage				
Perry Street (#4.5)	2	66,000	66,000	Minor construction started; one house to be bought
North Limestone / 900 Block (#45.5)	1	563,000	431,000	Staff evaluating scope of project; probable house purchases
Liberty Road (#47.3)	5	599,000	599,000	Purchase of houses; offer made to two owners; negotiating with owners
Derby Drive (#58.3)	10	788,000	0	Staff evaluating scope of project; funds to be spent if other projects do not proceed
Elizabeth Street - Phase I (#60)	3	900,000	900,000	Scope of project changed to multiphase; plan to construct first phase in 2007
Traffon Street (#75)	5	1,500,000	600,000	Design nearing completion; property acquisition underway, negotiating with owner
Subtotal		4,350,000	2,530,000	
Projects in Construction Stage				
Glendover West (#47.6)		470,000	470,000	Project bid; construction to proceed during winter of 2006~2007
Subtotal		470,000	470,000	
TOTAL		4,820,000	3,000,000	

Division of Engineering Response to Storm of September 23, 2006

Background:

- The Division of Engineering determines if projects should be added to the Stormwater Priority List. This list is normally updated in November of each year.
- Projects are added to the list to remediate home flooding and serious street flooding caused by the overland flow of water. Information is collected from residents through interviews and written questionnaires.
- Projects are not added to the list to remediate groundwater issues and yard flooding.
- Generally, projects are designed to control the 25 year return storm. Designs to respond to more intense events are examined and constructed, if economically reasonable.

Findings:

- The rainfall event that ended on the morning of September 23 exceeded the 25 year return storm for most of the Urban Service Area. The storm exceeded a 100 year return (1% probability) for a large portion of Fayette County.
- Some residents who had lived in their homes for many years reported that this was the first time the home had flooded.
- Several hundred property owners have reported flooding of some nature caused by the storm of September 23. More thorough information, gathered through questionnaires, site visits and other activities, is needed to complete categorization.

Recommendations:

- In order to fairly respond to all property owners who have reported flooding, new projects will not be added to the Priority List in November 2006. This action allows the Division of Engineering to fully and equitably respond to all citizens who requested assistance.
- The Priority List will be updated with newly identified projects in early summer 2007.
- The mandatory two year waiting period for any project added in summer 2007 will be retroactive to November 2006. This action will assure that no resident is burdened by the delay.
- Projects that meet policy standards established by the Department of Public Works in 2004 will be added to the Priority List.
- Since the intensity of storm on September 23 exceeded accepted design standards, the Division of Engineering will not add projects for sites that have only flooded during that single event.



Stormwater Priority Projects Master List

Home Flooding or Serious Street Flooding Known or Suspected

(Projects are Prioritized by Efficiency Value)

(Projects Active on the Date of Publication Appear as **Bold Text**)

(Shading Denotes Projects That are Complete, Bid, or Recommended for Removal)

Project	Priority and Name	Water-shed	Council District	Severity Score	CPI Adjusted Estimate	Efficiency Value	Comments
N/A WPGL		WR	3	1,506			PROJECT COMPLETED to prevent home flooding. Six homes demolished. Total cost: \$ 450,000
N/A FEMA Grant #1 (Kilmash)		WR	9	N/A			PROJECT COMPLETED by demolishing 3 homes. FEMA grant used. Total cost: \$ 293,000
1 Yellowstone		EH	7	195			PROJECT COMPLETED to stop street flooding and dangerous ice formation. Total cost: \$ 9,000
2 Plainview Drive		WH	7	193			PROJECT COMPLETED to prevent home flooding. Total cost: \$ 17,100
3 CR-3, Sandpiper/Kingston/Swigert		CR	6	706			Project recommended for removal from stormwater priority list. Disruption to neighborhood and cost/benefit ratio unreasonable. PROJECT COMPLETED to prevent street & home flooding. Total cost: \$ 8,600
4 Smoky Mountain		EH	7	194			New project added in 2004 Address after November 2006
4.3 Greyhound Dr.		CR	12	480	16,000	\$33/point	Project started to purchase one home that floods and correct deficient storm sewer; design is complete and construction starts soon.
4.5 Perry Street / 200 Block		TB	2	1,234	66,000	\$53/point	PROJECT COMPLETED to prevent home flooding. Two houses razed. Total cost: \$ 129,000
5 CR-6, Old Paris @ I-75		CR	6	486			Project recommended for removal from stormwater priority list due to neighborhood impact. Floodproofing offered to property owner. PROJECT COMPLETED to protect homes from dangerous erosion. Total cost: \$ 20,100
6 NE-2, Silver Leaf Court		NE	6	1,220			Project recommended for removal from stormwater priority list. Home flooding or street flooding not identified. PROJECT COMPLETED by demolishing one house. Total cost: \$ 145,000
7 WH-43, Coldstream Ct		WH	8	928			PROJECT COMPLETED by improving drainage channel in 1990. Total cost: \$ 7,000
8 WR-5, Beaumont Park Sinkhole		WR	10	421			PROJECT COMPLETED by purchasing and demolishing house. Total cost: \$104,000
9 WH-37, Tanforan Drive		WH	8	159			Project recommended for removal from stormwater priority list. Improvements will be completed by ongoing transportation project. PROJECT COMPLETED to upgrade system to prevent home flooding. Total cost: \$ 79,000
10 Lansdowne, Wilson-Downing		WH	4	181			PROJECT COMPLETED to prevent street & home flooding. Total cost: \$ 35,000
11 WH-6, Olympia Drive		WH	8	384			Project recommended for removal from stormwater priority list. Improvements will be completed by ongoing transportation project. PROJECT COMPLETED to upgrade system to prevent home flooding. Total cost: \$ 79,000
12 Gardenside		WR	11	1,206			Project recommended for removal from stormwater priority list. Improvements will be completed by ongoing transportation project. PROJECT COMPLETED to upgrade system to prevent home flooding. Total cost: \$ 79,000
13 Loudon Avenue		CR	1	295			Project recommended for removal from stormwater priority list. Improvements will be completed by ongoing transportation project. PROJECT COMPLETED to upgrade system to prevent home flooding. Total cost: \$ 79,000
14 WH-32, Sundart to Thame;		WH	8	615			Project recommended for removal from stormwater priority list. Identified problem (commercial flooding) does not meet program requirements. PROJECT COMPLETED by purchasing and demolishing two houses. Total cost: \$ 250,000
15 Sandalwood		NE	6	187			
16 TB-21, S Limestone St		TB	3	417			
17 WH-51, Lansdowne Shopping Center		WH	4	1,211			
18 Idle Hour		WH	5	405			



DIVISION OF ENGINEERING • DEPARTMENT OF PUBLIC WORKS
CITY OF NEW BERN GOVERNMENT • 201 LORETTA STREET, NEW BERN, NC 28560-3407

Stormwater Priority Projects Master List

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Project	Priority and Name	Water-shed	Council District	Severity Score	CPI Adjusted Estimate	Efficiency Value	Comments
19 TB-2, Greendale near Mercer	TB	12	165				Project recommended for removal from stormwater priority list. Development has lessened adverse conditions; state right of way.
20 Riviera	BC	12	243				PROJECT COMPLETED to prevent home flooding. Cost: \$18,000
21 TB-11, Town Br, Jefferson to Bizzell	TB	2	1,115				Project recommended for removal from stormwater priority list. Identified problem (erosion & debris) does not meet program requirements.
22 SE-26, Indian Hills Tributary	SE	9	789				Project recommended for removal from stormwater priority list. Home flooding not identified.
23 WH-27, Temple Drive	WH	4	381				Project recommended for removal from stormwater priority list. Investigation did not identify home flooding or serious street flooding.
24 WH-47, Lancelot Lane	WH	4	1,229				Project recommended for removal from stormwater priority list. Investigation did not identify home flooding or serious street flooding.
25 WH-50, Lowry Lane, Heather Way	WH	4	589				Project recommended for removal from stormwater priority list. Prior improvements resolved house flooding issues.
26 CR-11, Briarwood Drive	CR	2	1,011				PROJECT COMPLETED to prevent street & home flooding. Total expected cost: \$ 461,000
27 SE-4, Cindy Blair Way	SE	9	398				PROJECT COMPLETED by purchasing homes and floodproofing. Total cost: \$ 230,000
28 CR-19, Castlewood Drive	CR	2	1,050				Project recommended for removal from stormwater priority list. Improvements completed by earlier maintenance project.
29 TB-29, Richmond Avenue	TB	5	621				Project recommended for removal from stormwater priority list. Area has been developed and adverse conditions have been eliminated.
30 CR-18, Loudon Avenue	CR	1	1,225				PROJECT COMPLETED . Three homes demolished. Total cost: \$ 213,000
31 WR-15, McCubbing Drive	WR	10	792				PROJECT COMPLETED by improving sinkhole drainage. Total cost: \$ 3,000
32 Castlewood	CR	1	667				PROJECT COMPLETED . Total cost: \$ 96,200
33 CR-12, Deepwood @ Old Paris	CR	6	801				Project recommended for removal from stormwater priority list. No home flooding or serious street flooding identified.
34 Strathmore	CR	6	186				Project recommended for removal from stormwater priority list. Home flooding or street flooding not identified.
35 SE-22, S Elkhorn, Monticello to Halifax	SE	9	596				PROJECT COMPLETED as part of project #39. Minor stream bank restoration in this section.
36 Beaumont Park	WR	10	289				PROJECT COMPLETED by installing new storm sewer. Total cost: \$ 111,300
37 WR-2, Parkers Mill @ Williamsburg	WR	10	674				PROJECT COMPLETED . System improved to protect homes that flood. Total Cost: \$ 50,000
38 SE-23, S Elkhorn, Monticello / Reynolds	SE	9	533				Project recommended for removal from stormwater priority list. Upstream improvements have corrected problem.
39 SE-21, S Elkhorn, Higbee Mill to Halifax	SE	9	1,205				PROJECT COMPLETED . Halifax culvert rebuilt to prevent home flooding. Total Cost: \$ 110,000
40 CR-13, Morgan Avenue	CR	1	1,279				Five houses purchased and demolished; design part of CDBG project. Total expected cost: \$ 396,000

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Project Priority and Name	Water-shed	Council District	Severity Score	CPI Adjusted Estimate	Efficiency Value	Comments
40.3 Radcliffe Rd.	CR	2	635	134,000	\$211/point	New project added in 2004
40.5 Loch Lomond Dr.	WH	4	1,364	443,000	\$325/point	New project added in 2004
40.7 Morgan Avenue / 400 Block	CR	1	198	78,000	\$394/point	New project added in 2005
41 CR-5, Circle Drive @ Paris Pike	CR	6	1,202			PROJECT COMPLETED. One home purchased and demolished. Total Cost: \$ 93,200
42 TB-23, Hollywood @ Ashland	TB	3	198			Project recommended for removal from stormwater priority list.
43 WR-19, Aster Road	WR	10	621			Improvements completed by earlier maintenance project.
44 Hollow Creek @ Russell Cave	CR	2	1,229			PROJECT COMPLETED. Improved system to reduce home flooding.
45 WH-3, Greentree Road	WH	8	1,225			Total Cost: \$ 355,000
45.5 N Limestone / 900 Block	CR	1	1,289	563,000	\$437/point	No home flooding or serious street flooding identified.
46 Zandale	WH	4	1,222			PROJECT COMPLETED from Lowry to Libby. Total cost: \$ 335,000
47 WH-35, Henry Clay Blvd	WH	5	819			PROJECT COMPLETED to upgrade existing storm sewer system. Total Cost: \$ 220,000
47.3 Liberty Road	WH	5	1,335	646,000	\$484/point	Project started to purchase and demolish homes that flood.
47.5 Aniston Drive	NE	6	1,080	571,000	\$529/point	Appraisals complete; offers made for two properties; negotiating with owners. New project added in 2005
47.6 Glendover West	WH	4	1,491			Address after November 2007 Project has been bid to build stormwater features in Arboretum.
48 Wellesley Heights	SE	12	186			Expect construction in late fall of 2006. Construction bid: \$470,000
49 Jefferson Street	TB	1	202			PROJECT COMPLETED. Headwall repaired with rehabilitation funds. Total Cost: \$0
50 Dantzler/Arcadia/Cherokee Park	WR	3	606			Project recommended for removal from stormwater priority list.
51 E High St - Hagerman Court	TB	3	189			Home flooding or street flooding not identified.
52 WH-19, Rebecca Road	WH	4	289			PROJECT COMPLETED to reduce home and street flooding. Total cost: \$ 350,000
53 Ballard Street	TB	1	188			PROJECT COMPLETED with #54 to minimize serious street flooding. Expected cost: \$ 160,000
54 E High Street - Stone Avenue	TB	3	187			PROJECT COMPLETED to protect homes from flooding. Expected cost: \$ 160,000
54.6 Wickland Drive	NE	6	1,400	779,000	\$556/point	New project added in 2005 Address after November 2007



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DIVISION OF ENGINEERING - DEPARTMENT OF PUBLIC WORKS
LEXINGTON-LINCOLN COUNTY GOVERNMENT 100 EAST MAIN STREET, BOX 14000 | LEXINGTON, KY 40507

Project Priority and Name	Water-shed	Council District	Severity Score	CPI Adjusted Estimate	Efficiency Value	Comments
55 NE-8, Floyd Drive @ New Circle	NE	6	1,202			PROJECT COMPLETED. Six houses demolished on Dartmoor Court. Total cost: \$701,000
55.1 Dartmoor Court	NE	6	203	114,000		New project added in 2005
56 TB-4, Greendale Rd, N of Sandersville	TB	12	185			Project recommended for removal from stormwater priority list. Improvements would be required to state right of way.
57 Mill Street	TB	1	179			Project recommended for removal from stormwater priority list. Home flooding or street flooding not identified.
58 Lansdowne-Merrick	WH	5	1,265			PROJECT COMPLETED by constructing new culvert and improving channel. Total cost: \$488,000
58.3 Derby Dr / 200 Block	WR	10	1,283	821,000		Recommend purchase and demolition of multiple houses that flood. Will buy first group from funds remaining in latest bond. Buy rest with next funding.
58.7 Whitemark Ct / 4000 Block	NE	12	1,273	821,000	\$645/point	New project added in 2003 Address after November 2005
59 Elkhorn Park	CR	2	748			PROJECT COMPLETED by purchasing homes, building new system, and detention basins.
60 Elizabeth Street	WR	3	754	593,000	\$786/point	Design has started for project to alleviate home flooding; breaking project into two phases; expect to bid first phase in 2007.
60.5 Mason-Headley/Tazewell to Beacon Hill	WR	11	774	618,000	\$798/point	New project added in 2003 Address after November 2005
61 WH-28, Tiverton Way	WH	4	1,223			Project recommended for removal from stormwater priority list. Development work has corrected identified problems.
61.2 Walhampton	WH	4	940	810,000	\$862/point	New project added in 2005 Address after November 2007
61.5 Ft Sumter Drive	NE	6	876	807,000	\$921/point	New project added in 2002 Address after December 2004
62 Lansdowne	WH	4	412	384,000	\$932/point	
63 TB-3, Greendale, Mercer to Sandersville	TB	12	287	272,000	\$948/point	
64 SE-12, Jessie Clark Sinkhole	SE	9	474	454,000	\$958/point	
65 Meadows	CR	1	673	698,000	\$1,037/point	
66 CR-21, Culvert @ WLEX on IBM Trib	CR	1	176	187,000	\$1,063/point	
66.3 Idle Hour North	WH	7	1,027	1,177,000	\$1,146/point	New project added in 2002 Address after December 2004
66.6 Tucson Drive	WR	10	1,422	1,644,000	\$1,156/point	New project added in 2000 Address after December 2002
67 WH-46, Wilson Downing Trib @ W-D	WH	4	184	214,000	\$1,163/point	New project added in 2000 Address after December 2002
67.5 Elam Park	WR	3	1,496	1,770,000	\$1,183/point	



DEPARTMENT OF PUBLIC WORKS
UNIVERSITY PARK COUNTRY GOVERNMENT 100 LAKE MAN STREET, BOX 11 LYNCHBURG, VA 24502

Stormwater Priority Projects Master List

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Project Priority and Name	Water-shed	Council District	Severity Score	CPI Adjusted Estimate	Efficiency Value	Comments
68 Rockbridge @ Saron	WH	12	189	223,000	\$1,180/point	
68.5 Queensway	WH	5	1,499	1,817,000	\$1,212/point	New project added in 2001 Address after December 2003
69 Claymont	WR	10	600	733,000	\$1,222/point	
70 WH-39, Tates Creek @ Wilson-Downing	WH	4	293	374,000	\$1,276/point	
70.5 Glendover East	WH	4	1,482	1,908,000	\$1,287/point	New project added in 2001 Address after December 2003
71 Picadome	WR	10	852	1,152,000	\$1,352/point	
71.5 Peachtree Road / 300 Block	WH	7	564	821,000	\$1,456/point	New project added in 2003 Address after November 2005
72 Woodhill Park	WH	7	1,261	1,857,000	\$1,473/point	
73 TB-24, E High St, S Hanover to Cochran	TB	3	197	293,000	\$1,487/point	
74 Arcadia Park/Berry Lane	WR	3	1,226	1,829,000	\$1,492/point	
75 TB-15, Trafton Street	TB	11	1,234	1,868,000	\$1,514/point	
76 Rosemary-Bermuda	CR	1	306	469,000	\$1,533/point	
77 WR-6, Viley @ Old Franklin	WR	12	183	293,000	\$1,601/point	
78 CR-4, Parkside @ Shandon	CR	6	1,343	2,174,000	\$1,619/point	
79 Bryan Station	CR	6	1,002	1,724,000	\$1,721/point	
80 NE-9, Eastland Park Trib @ Gayle Dr	NE	6	478	828,000	\$1,732/point	
80.3 Barkley / Southgate	WR	10	1,234	2,243,000	\$1,818/point	New project added in 2002 Address after December 2004
80.4 Lane Allen / Darien	WR	11	772	1,418,000	\$1,837/point	New project added in 2003 Address after November 2005
80.6 Longview Drive West	WR	10	1,303	2,584,000	\$1,983/point	New project added in 2000 Address after December 2002
81 Joyland	CR	6	622	1,354,000	\$2,177/point	
82 Mentelle Park	TB	5	189	419,000	\$2,217/point	
83 Idle Hour Drive	WH	7	289	670,000	\$2,318/point	



DIVISION OF ENGINEERING • DEPARTMENT OF PUBLIC WORKS
LAFAYETTE, LOUISIANA, GOVERNMENT BOX 2001 MAIN STREET, P.O. BOX 2001, LAFAYETTE, LA 70501

Stormwater Priority Projects Master List

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Project	Priority and Name	Water-shed	Council District	Severity Score	CPI Adjusted Estimate	Efficiency Value	Comments
83.5 Lafayette/ Southbend Area		WR	10	809	2,139,000	\$2,644/point	New project added in 2004
84 Elmwood Drive		CR	6	179	503,000	\$2,810/point	Address after November 2006
85 Gainesway		WH	8	522	1,536,000	\$2,943/point	
85.5 Longview Drive East		WR	10	450	1,351,000	\$3,002/point	New project added in 2000
86 Hume Road		NE	12	181	547,000	\$3,022/point	Address after December 2002
87 Wiley		WR	10	1,379	4,300,000	\$3,118/point	BUYOUTS COMPLETE 36 demolitions; FEMA grant application made
88 SE-19, S Elkhorn, Bowman M Trib to 68		SE	12	168	560,000	\$3,333/point	Total estimated cost: \$ 3,007,000 (without design costs)
89 Skycrest		WR	11	1,308			PROJECT COMPLETED; 22 demolitions. Floodplain Rehab complete. Total estimated cost: \$2,647,000 (without design costs)
90 Ashland Park		TB	5	1,275	5,081,000	\$3,985/point	
91 Pine Meadows		WR	11	854	4,090,000	\$4,789/point	
92 West Gardenside		WR	11	355	2,562,000	\$7,217/point	
93 Mt. Vernon/Hollywood		TB	3	1,278	9,548,000	\$7,471/point	
94 Stonewall Community		SE	9	161	1,361,000	\$8,453/point	
95 National Avenue		TB	3	1,261	13,639,000	\$10,816/point	
96 N. Limestone		TB	3	186	2,094,000	\$11,258/point	
97 Ashland		TB	5	1,222	17,296,000	\$14,154/point	
98 Georgetown Street		TB	2	191	3,630,000	\$19,005/point	
99 Aylesford Park		TB	3	299	5,919,000	\$19,796/point	
100 N. Broadway		TB	3	179	3,560,000	\$19,888/point	
Total Cost Estimate							121,447,000